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APR 30 1997

TefGen-LS[™] 510(k) SUMMARY OF SAFETY AND EFFICACY

Prepared by:

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Date:

December 20, 1996

Classification Name:

Augmentation Membrane, 76LYC

Common/Usual Names:

Barrier Membrane; Guided Tissue Membrane; or GTR

Membrane.

Proprietary Name:

TefGen-LS™ Guided Tissue Membrane

Establishment Reg. No.

9006936

Classification:

Class II

Performance Standards:

Not Applicable.

Substantial Equivalence:

The non-absorbable augmentation membrane is manufactured by American Custom Medical and is equivalent in function to the augmentation membranes manufactured and marketed by both American Custom Medical and W.L. Gore which are currently on

the market.

Product Description & Intended Use:

TefGen-LS membrane is a 100% PTFE non-absorbable guided tissue membrane. TefGen-LS is an implant material which is intended to be used as a temporary space making barrier over bone or other tissue. The material is easily trimmed to a variety of

shapes as required by specific cases.

Comparative Technological Characteristics:

TefGen-LS is a biocompatible 100% PTFE membrane, is nonresorbable, is stiff enough to create a space, and is supple

enough to be formed over the margins of a defect; as are the predicate devices.

Safety & Efficacy:

TefGen-LS is composed of 100% polytetrafluoroethylene or PTFE. PTFE is the most inert polymer known at this time. PTFE's use as an implant material in the cardiovascular area is well substantiated

with over 3,000,000 PTFE vascular grafts implanted to date. Many other configurations of PTFE devices are marketed including soft tissue and cardiovascular PTFE patches, PTFE suture, PTFE barrier

membranes, and PTFE ear implant devices.

PTFE has been found to pass biocompatibility assays including U.S.P. Class VI, carcinogenicity studies, hemocompatibility studies, and others. PTFE has been proven many times over to be nonreactive to body fluids and tissues making it a material of choice for

biomaterial applications.

TefGen-LS[™] 510(k) SUMMARY OF SAFETY AND EFFICACY (cont)

Literature:

ACM PTFE has been found to function as an acceptable augmentation membrane as noted in the following articles:

"The Use of High-Density Polytetrafluoroethylene Membrane to Treat Osseous Defects: Clinical Reports", 8. Bartee, D.D.S., Implant Dentistry, 4, 1995, pgs. 21-26.

"Evaluation of a Full Density Polytetrafluoroethylene (PTFE) Film to Promote Osteogenesis in the Rat Model", J. Carr, et.al., Oral Implantology, 21, 1995, pgs. 88-95.

"Influence of Three Membrane Types on Healing of Skull Lesions", B. Crump, et.al, presented at the 1995 IADR Annual Meeting, Singapore, June, 1995.

"The Influence of Three Membrane Types on Healing of Bone Defects", B. Crump, et.al., *Oral Surgery, Oral Medicine*, *Oral Pathology and Oral Radiology*, Oct. 1996, pgs. 365-374.

"High-density PTFE Membranes: Uses with Root-form Implants", J. Krauser, *Dental Implantology Update*, **7**, pgs. 65-69, 1996.

Clinical Research Associates Newsletter, 20:4, February 1996.

Conclusion:

The TefGen-LS membrane configuration is substantially equivalent to the currently marketed TefGen-FD membrane and currently marketed GORE-TEX augmentation membrane.